

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/644,289DATE: 06/24/96  
TIME: 13:07:31

INPUT SET: S11216.raw

## SEQUENCE LISTING

ENTERED

1  
2  
3 (1) GENERAL INFORMATION:  
4 (i) APPLICANT: Kulesz-Martin, Molly F.  
5 (ii) TITLE OF INVENTION: p53as PROTEIN AND ANTIBODY THEREFOR  
6 (iii) NUMBER OF SEQUENCES: 8  
7 (iv) CORRESPONDENCE ADDRESS:  
8 (A) ADDRESSEE: Dunn & Associates  
9 (B) STREET: P.O. Box 96  
10 (C) CITY: Newfane  
11 (D) STATE: New York  
12 (E) COUNTRY: U.S.A.  
13 (F) ZIP: 14108  
14 (v) COMPUTER READABLE FORM:  
15 (A) MEDIUM TYPE: Diskette - 3.5 inch, 1.44 MB  
16 (B) COMPUTER: Victor 300 SX/25  
17 (C) OPERATING SYSTEM: MS-DOS Version 5.0  
18 (D) SOFTWARE: Wordstar Professional Release 4  
19 (vi) CURRENT APPLICATION DATA:  
20 (A) APPLICATION NUMBER: US/08/644,289  
21 (B) FILING DATE: 10-May-1996  
22 (C) CLASSIFICATION: 530  
23 (vii) PRIOR APPLICATION DATA:  
24 (A) APPLICATION NUMBER: 08/195,952  
25 (B) FILING DATE: 11-Feb-1994  
26 (C) CLASSIFICATION: 530  
27 (viii) PRIOR APPLICATION DATA:  
28 (A) APPLICATION NUMBER: 08/100,496  
29 (B) FILING DATE: 02-Aug-1993  
30 (ix) ATTORNEY/AGENT INFORMATION:  
31 (A) NAME: Dunn, Michael L.  
32 (B) REGISTRATION NUMBER: 25,330  
33 (C) REFERENCE/DOCKET NUMBER: RPP:135D US  
34 (x) TELECOMMUNICATION INFORMATION:  
35 (A) TELEPHONE: (716)433-1661  
36 (B) TELEFAX: (716)433-1665  
37  
38 (2) INFORMATION FOR SEQ ID NO: 1:  
39 (i) SEQUENCE CHARACTERISTICS:  
40 (A) LENGTH: 20  
41 (B) TYPE: amino acids  
42 (C) STRANDEDNESS: unknown  
43 (D) TOPOLOGY: unknown  
44 (ii) MOLECULE TYPE: peptide  
45 (iii) HYPOTHETICAL: no  
46 (iv) ANTI-SENSE: no  
47 (v) FRAGMENT TYPE: peptide  
48 (vi) ORIGINAL SOURCE:  
49 (A) ORGANISM: human  
50 (B) STRAIN:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/644,289DATE: 06/24/96  
TIME: 13:07:44

INPUT SET: S11216.raw

51 (C) INDIVIDUAL ISOLATE:  
52 (D) DEVELOPMENTAL STAGE:  
53 (E) HAPLOTYPE:  
54 (F) TISSUE TYPE:  
55 (G) CELL TYPE:  
56 (H) CELL LINE:  
57 (I) ORGANELLE:  
58 (vii) IMMEDIATE SOURCE:  
59 (A) LIBRARY: deduced translation from nucleotides  
60 in Genbank nucleic acid database accession  
61 #54156, Locus HSP53G  
62 (B) CLONE:  
63 (viii) POSITION IN GENOME:  
64 (A) CHROMOSOME/SEGMENT: human p53 gene, intron 10  
65 (B) MAP POSITION: 18,503 to 18,562  
66 (C) UNITS: nucleotides  
67 (ix) FEATURE:  
68 (A) NAME/KEY:  
69 (B) LOCATION:  
70 (C) IDENTIFICATION METHOD:  
71 (D) OTHER INFORMATION:  
72 (x) PUBLICATION INFORMATION:  
73 (A) AUTHORS:  
74 (B) TITLE:  
75 (C) JOURNAL:  
76 (D) VOLUME:  
77 (E) ISSUE:  
78 (F) PAGES:  
79 (G) DATE:  
80 (H) DOCUMENT NUMBER:  
81 (I) FILING DATE:  
82 (J) PUBLICATION DATE:  
83 (K) RELEVANT RESIDUES IN SEQ ID NO:  
84 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
85 Ser Leu Arg Pro Phe Lys Ala Leu Val Arg Glu Lys Gly His Arg Pro  
86 1 5 10 15  
87 Ser His Ser Cys  
88 20  
89  
90 (2) INFORMATION FOR SEQ ID NO: 2:  
91 (i) SEQUENCE CHARACTERISTICS:  
92 (A) LENGTH: 38  
93 (B) TYPE: nucleotides  
94 (C) STRANDEDNESS: unknown  
95 (D) TOPOLOGY: unknown  
96 (ii) MOLECULE TYPE: nucleic acids  
97 (iii) HYPOTHETICAL:  
98 (iv) ANTI-SENSE:  
99 (v) FRAGMENT TYPE:  
100 (vi) ORIGINAL SOURCE:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/644,289DATE: 06/24/96  
TIME: 13:07:56

INPUT SET: S11216.raw

101 (A) ORGANISM: murine  
102 (B) STRAIN:  
103 (C) INDIVIDUAL ISOLATE:  
104 (D) DEVELOPMENTAL STAGE:  
105 (E) HAPLOTYPE:  
106 (F) TISSUE TYPE:  
107 (G) CELL TYPE:  
108 (H) CELL LINE:  
109 (I) ORGANELLE: synthesized  
110 (vii) IMMEDIATE SOURCE: Genbank Accession #K01700  
111 (A) LIBRARY:  
112 (B) CLONE:  
113 (viii) POSITION IN GENOME:  
114 (A) CHROMOSOME/SEGMENT:  
115 (B) MAP POSITION: nucleotides 1028-1061 in murine  
116 p53 gene  
117 (C) UNITS: nucleotides  
118 (ix) FEATURE:  
119 (A) NAME/KEY:  
120 (B) LOCATION:  
121 (C) IDENTIFICATION METHOD:  
122 (D) OTHER INFORMATION:  
123 (x) PUBLICATION INFORMATION:  
124 (A) AUTHORS:  
125 (B) TITLE:  
126 (C) JOURNAL:  
127 (D) VOLUME:  
128 (E) ISSUE:  
129 (F) PAGES:  
130 (G) DATE:  
131 (H) DOCUMENT NUMBER:  
132 (I) FILING DATE:  
133 (J) PUBLICATION DATE:  
134 (K) RELEVANT RESIDUES IN SEQ ID NO:  
135 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
136 AGTCAGGCCT TAGAGTTAAA GGATGCCCAT GCTACAGA  
137  
138  
139 (2) INFORMATION FOR SEQ ID NO: 3:  
140 (i) SEQUENCE CHARACTERISTICS:  
141 (A) LENGTH: 28  
142 (B) TYPE: nucleotide  
143 (C) STRANDEDNESS: unknown  
144 (D) TOPOLOGY: unknown  
145 (ii) MOLECULE TYPE: nucleic acids  
146 (iii) HYPOTHETICAL:  
147 (iv) ANTI-SENSE:  
148 (v) FRAGMENT TYPE:  
149 (vi) ORIGINAL SOURCE:  
150 (A) ORGANISM: murine

38

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/644,289DATE: 06/24/96  
TIME: 13:08:09

INPUT SET: S11216.raw

151 (B) STRAIN:  
152 (C) INDIVIDUAL ISOLATE:  
153 (D) DEVELOPMENTAL STAGE:  
154 (E) HAPLOTYPE:  
155 (F) TISSUE TYPE:  
156 (G) CELL TYPE:  
157 (H) CELL LINE:  
158 (I) ORGANELLE:  
159 (vii) IMMEDIATE SOURCE: synthesized  
160 (A) LIBRARY: Genbank Accession #K01700  
161 (B) CLONE:  
162 (viii) POSITION IN GENOME:  
163 (A) CHROMOSOME/SEGMENT:  
164 (B) MAP POSITION: -111 to -91 upstream of murine  
165 p53 coding region  
166 (C) UNITS: nucleotides  
167 (ix) FEATURE:  
168 (A) NAME/KEY:  
169 (B) LOCATION:  
170 (C) IDENTIFICATION METHOD:  
171 (D) OTHER INFORMATION:  
172 (x) PUBLICATION INFORMATION:  
173 (A) AUTHORS:  
174 (B) TITLE:  
175 (C) JOURNAL:  
176 (D) VOLUME:  
177 (E) ISSUE:  
178 (F) PAGES:  
179 (G) DATE:  
180 (H) DOCUMENT NUMBER:  
181 (I) FILING DATE:  
182 (J) PUBLICATION DATE:  
183 (K) RELEVANT RESIDUES IN SEQ ID NO:  
184 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
185 AGTCGAATTC ATTGGGACCA TCCTGGCT 28  
186  
187  
188 (2) INFORMATION FOR SEQ ID NO: 4:  
189 (i) SEQUENCE CHARACTERISTICS:  
190 (A) LENGTH: 30  
191 (B) TYPE: nucleotide  
192 (C) STRANDEDNESS: unknown  
193 (D) TOPOLOGY: unknown  
194 (ii) MOLECULE TYPE: nucleic acids  
195 (iii) HYPOTHETICAL:  
196 (iv) ANTI-SENSE: yes  
197 (v) FRAGMENT TYPE:  
198 (vi) ORIGINAL SOURCE:  
199 (A) ORGANISM: murine  
200 (B) STRAIN:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/644,289DATE: 06/24/96  
TIME: 13:08:21

INPUT SET: S11216.raw

201 (C) INDIVIDUAL ISOLATE:  
202 (D) DEVELOPMENTAL STAGE:  
203 (E) HAPLOTYPE:  
204 (F) TISSUE TYPE:  
205 (G) CELL TYPE:  
206 (H) CELL LINE:  
207 (I) ORGANELLE:  
208 (vii) IMMEDIATE SOURCE: synthesized  
209 (A) LIBRARY:  
210 (B) CLONE:  
211 (viii) POSITION IN GENOME:  
212 (A) CHROMOSOME/SEGMENT:  
213 (B) MAP POSITION:  
214 (C) UNITS:  
215 (ix) FEATURE:  
216 (A) NAME/KEY:  
217 (B) LOCATION: 1071-1100 in murine p53 gene  
218 (C) IDENTIFICATION METHOD:  
219 (D) OTHER INFORMATION:  
220 (x) PUBLICATION INFORMATION:  
221 (A) AUTHORS:  
222 (B) TITLE:  
223 (C) JOURNAL:  
224 (D) VOLUME:  
225 (E) ISSUE:  
226 (F) PAGES:  
227 (G) DATE:  
228 (H) DOCUMENT NUMBER:  
229 (I) FILING DATE:  
230 (J) PUBLICATION DATE:  
231 (K) RELEVANT RESIDUES IN SEQ ID NO:  
232 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
233 AGTCGGATCC TGGAGTGAGC CCTGCTGTCT 30  
234  
235  
236 (2) INFORMATION FOR SEQ ID NO: 5:  
237 (i) SEQUENCE CHARACTERISTICS:  
238 (A) LENGTH: 10  
239 (B) TYPE: nucleotides  
240 (C) STRANDEDNESS: unknown  
241 (D) TOPOLOGY: unknown  
242 (ii) MOLECULE TYPE: nucleic acids  
243 (iii) HYPOTHETICAL:  
244 (iv) ANTI-SENSE:  
245 (v) FRAGMENT TYPE:  
246 (vi) ORIGINAL SOURCE:  
247 (A) ORGANISM: human  
248 (B) STRAIN:  
249 (C) INDIVIDUAL ISOLATE:  
250 (D) DEVELOPMENTAL STAGE:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/644,289DATE: 06/24/96  
TIME: 13:08:34

INPUT SET: S11216.raw

251 (E) HAPLOTYPE:  
252 (F) TISSUE TYPE:  
253 (G) CELL TYPE:  
254 (H) CELL LINE:  
255 (I) ORGANELLE:  
256 (vii) IMMEDIATE SOURCE:  
257 (A) LIBRARY:  
258 (B) CLONE:  
259 (viii) POSITION IN GENOME:  
260 (A) CHROMOSOME/SEGMENT:  
261 (B) MAP POSITION:  
262 (C) UNITS:  
263 (ix) FEATURE:  
264 (A) NAME/KEY:  
265 (B) LOCATION:  
266 (C) IDENTIFICATION METHOD:  
267 (D) OTHER INFORMATION:  
268 (x) PUBLICATION INFORMATION:  
269 (A) AUTHORS: El-Deiry, WS, et al.  
270 (B) TITLE:  
271 (C) JOURNAL: Nature  
272 (D) VOLUME: 358  
273 (E) ISSUE:  
274 (F) PAGES: 83-86  
275 (G) DATE: 1992  
276 (H) DOCUMENT NUMBER:  
277 (I) FILING DATE:  
278 (J) PUBLICATION DATE: 1992  
279 (K) RELEVANT RESIDUES IN SEQ ID NO:  
280 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
281 AGGCATGCCT 10  
282  
283  
284 (2) INFORMATION FOR SEQ ID NO: 6: -P53 DNA binding sequence:  
285 (i) SEQUENCE CHARACTERISTICS:  
286 (A) LENGTH: 50  
287 (B) TYPE: nucleotides  
288 (C) STRANDEDNESS: unknown  
289 (D) TOPOLOGY: unknown  
290 (ii) MOLECULE TYPE: nucleic acids  
291 (iii) HYPOTHETICAL:  
292 (iv) ANTI-SENSE:  
293 (v) FRAGMENT TYPE:  
294 (vi) ORIGINAL SOURCE:  
295 (A) ORGANISM: human  
296 (B) STRAIN:  
297 (C) INDIVIDUAL ISOLATE:  
298 (D) DEVELOPMENTAL STAGE:  
299 (E) HAPLOTYPE:  
300 (F) TISSUE TYPE:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/644,289DATE: 06/24/96  
TIME: 13:08:46

INPUT SET: S11216.raw

301 (G) CELL TYPE:  
302 (H) CELL LINE:  
303 (I) ORGANELLE:  
304 (vii) IMMEDIATE SOURCE: synthesized  
305 (A) LIBRARY:  
306 (B) CLONE:  
307 (viii) POSITION IN GENOME:  
308 (A) CHROMOSOME/SEGMENT:  
309 (B) MAP POSITION:  
310 (C) UNITS:  
311 (ix) FEATURE:  
312 (A) NAME/KEY:  
313 (B) LOCATION:  
314 (C) IDENTIFICATION METHOD:  
315 (D) OTHER INFORMATION:  
316 (x) PUBLICATION INFORMATION:  
317 (A) AUTHORS: Zambetti, G., et al.  
318 (B) TITLE:  
319 (C) JOURNAL: Genes & Dev.  
320 (D) VOLUME: 6  
321 (E) ISSUE:  
322 (F) PAGES: 1143-1152  
323 (G) DATE: 1992  
324 (H) DOCUMENT NUMBER:  
325 (I) FILING DATE:  
326 (J) PUBLICATION DATE: 1992  
327 (K) RELEVANT RESIDUES IN SEQ ID NO:  
328 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
329 TGGCAAGCCT ATGACATGGC CGGGGCCTGC CTCTCTCTGC CTCTGACCCT 50  
330  
331 (2) INFORMATION FOR SEQ ID NO: 7: -p53 DNA binding sequence:  
332 (i) SEQUENCE CHARACTERISTICS:  
333 (A) LENGTH: 30  
334 (B) TYPE: nucleotides  
335 (C) STRANDEDNESS: unknown  
336 (D) TOPOLOGY: unknown  
337 (ii) MOLECULE TYPE: nucleic acids  
338 (iii) HYPOTHETICAL:  
339 (iv) ANTI-SENSE:  
340 (v) FRAGMENT TYPE:  
341 (vi) ORIGINAL SOURCE:  
342 (A) ORGANISM: human  
343 (B) STRAIN:  
344 (C) INDIVIDUAL ISOLATE:  
345 (D) DEVELOPMENTAL STAGE:  
346 (E) HAPLOTYPE:  
347 (F) TISSUE TYPE:  
348 (G) CELL TYPE:  
349 (H) CELL LINE:  
350 (I) ORGANELLE:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/644,289DATE: 06/24/96  
TIME: 13:08:58

INPUT SET: S11216.raw

351 (vii) IMMEDIATE SOURCE: synthesized  
352 (A) LIBRARY:  
353 (B) CLONE:  
354 (viii) POSITION IN GENOME:  
355 (A) CHROMOSOME/SEGMENT:  
356 (B) MAP POSITION:  
357 (C) UNITS:  
358 (ix) FEATURE:  
359 (A) NAME/KEY:  
360 (B) LOCATION:  
361 (C) IDENTIFICATION METHOD:  
362 (D) OTHER INFORMATION:  
363 (x) PUBLICATION INFORMATION:  
364 (A) AUTHORS: Foord, O., et al.  
365 (B) TITLE:  
366 (C) JOURNAL: Mol. Cell. Biol.  
367 (D) VOLUME: 13  
368 (E) ISSUE:  
369 (F) PAGES: 1378-1384  
370 (G) DATE: 1993  
371 (H) DOCUMENT NUMBER:  
372 (I) FILING DATE:  
373 (J) PUBLICATION DATE: 1993  
374 (K) RELEVANT RESIDUES IN SEQ ID NO:  
375 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
376 GACACTGGTC ACACTTGGCT GCTTAGGAAT 30  
377  
378  
379 (2) INFORMATION FOR SEQ ID NO: 8: p53 mutated DNA binding sequence:  
380 (i) SEQUENCE CHARACTERISTICS:  
381 (A) LENGTH: 10  
382 (B) TYPE: nucleotides  
383 (C) STRANDEDNESS: unknown  
384 (D) TOPOLOGY: unknown  
385 (ii) MOLECULE TYPE: nucleic acids  
386 (iii) HYPOTHETICAL:  
387 (iv) ANTI-SENSE:  
388 (v) FRAGMENT TYPE:  
389 (vi) ORIGINAL SOURCE:  
390 (A) ORGANISM: human  
391 (B) STRAIN:  
392 (C) INDIVIDUAL ISOLATE:  
393 (D) DEVELOPMENTAL STAGE:  
394 (E) HAPLOTYPE:  
395 (F) TISSUE TYPE:  
396 (G) CELL TYPE:  
397 (H) CELL LINE:  
398 (I) ORGANELLE:  
399 (vii) IMMEDIATE SOURCE: synthesized  
400 (A) LIBRARY:



RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/644,289DATE: 06/24/96  
TIME: 13:09:11

INPUT SET: S11216.raw

401 (B) CLONE:  
402 (viii) POSITION IN GENOME:  
403 (A) CHROMOSOME/SEGMENT:  
404 (B) MAP POSITION:  
405 (C) UNITS:  
406 (ix) FEATURE:  
407 (A) NAME/KEY:  
408 (B) LOCATION:  
409 (C) IDENTIFICATION METHOD:  
410 (D) OTHER INFORMATION:  
411 (x) PUBLICATION INFORMATION:  
412 (A) AUTHORS: El-Deiry, W.S. et al.  
413 (B) TITLE:  
414 (C) JOURNAL: Nature  
415 (D) VOLUME: 358  
416 (E) ISSUE:  
417 (F) PAGES: 83-86  
418 (G) DATE: 1992  
419 (H) DOCUMENT NUMBER:  
420 (I) FILING DATE:  
421 (J) PUBLICATION DATE: 1992  
422 (K) RELEVANT RESIDUES IN SEQ ID NO:  
423 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
424 AGGaATtCCT 10